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Publications:

Learning-by-doing: experience from 20 years of teaching LCA to future engineers
Publication: Research - peer-review › Journal article – Annual report year: 2018

About This Book
Publication: Research - peer-review › Book chapter – Annual report year: 2017

A comparison of land use change accounting methods: seeking common grounds for key modeling choices in biofuel assessments
Publication: Research - peer-review › Journal article – Annual report year: 2018

ASTA - A method for multi-criteria evaluation of water supply technologies to Assess the most SusTainable Alternative for Copenhagen
Publication: Research - peer-review › Journal article – Annual report year: 2018

Cradle to Cradle and LCA
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Development of a life-cycle impact assessment methodology linked to the Planetary Boundaries framework
Publication: Research - peer-review › Journal article – Annual report year: 2018

Global guidance on environmental life cycle impact assessment indicators: impacts of climate change, fine particulate matter formation, water consumption and land use
Publication: Research - peer-review › Journal article – Annual report year: 2018

How to bring absolute sustainability into decision-making: An industry case study using a Planetary Boundary-based methodology
Publication: Research - peer-review › Journal article – Annual report year: 2018

Introduction to LCA Methodology
Publication: Research - peer-review › Book chapter – Annual report year: 2017

LCA Cookbook
Publication: Research - peer-review › Book chapter – Annual report year: 2017
LCA History
Publication: Research - peer-review › Book chapter – Annual report year: 2017

LCA of Energy Systems
Publication: Research - peer-review › Book chapter – Annual report year: 2017

LCA of Solid Waste Management Systems
Publication: Research - peer-review › Book chapter – Annual report year: 2017

LCA of Wastewater Treatment
Publication: Research - peer-review › Book chapter – Annual report year: 2018

Life Cycle Assessment - Theory and Practice
Publication: Research - peer-review › Book – Annual report year: 2017

Life Cycle Impact Assessment
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Life Cycle Interpretation
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Life Cycle Inventory Analysis
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Scope Definition
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Supply chain collaboration in industrial symbiosis networks
Publication: Research - peer-review › Journal article – Annual report year: 2018

Techno-environmental assessment of the green biorefinery concept: Combining process simulation and life cycle assessment at an early design stage
Publication: Research - peer-review › Journal article – Annual report year: 2018

An Integrated Framework for Life Cycle Engineering
Publication: Research - peer-review › Journal article – Annual report year: 2017

Applying LCA in decision making: the need and the future perspective
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Assessing the edible city: Environmental implications of urban agriculture in the Northeast United States
Publication: Research › Ph.D. thesis – Annual report year: 2017

Can carbon footprint serve as proxy of the environmental burden from urban consumption patterns?
Publication: Research - peer-review › Journal article – Annual report year: 2017

Characterization of waterborne nitrogen emissions for marine eutrophication modelling in life cycle impact assessment at the damage level and global scale
Publication: Research - peer-review › Journal article – Annual report year: 2017

Closing the Loop for Packaging: Finding a Framework to Operationalize Circular Economy Strategies
Publication: Research - peer-review › Journal article – Annual report year: 2017
Combining eco-efficiency and eco-effectiveness for continuous loop beverage packaging systems: learnings from the Carlsberg Circular Community

Contributions of Local Farming to Urban Sustainability in the Northeast United States

Critical review of life cycle assessments conducted on aquaculture systems: identification of environmental improvements

EcoDesign 2.0 - Quantitative EcoDesign within Drives and Automation Technologies

Environmental impacts of barley cultivation under current and future climatic conditions

Environmental impacts of electricity self-consumption from organic photovoltaic battery systems at industrial facilities in Denmark

Environmental impacts of stormwater management and pollutant discharges

Environmental performance of gasified willow from different lands including land-use changes

Exploring REACH as a potential data source for characterizing ecotoxicity in life cycle assessment

How does the long-term aging in the soil change terrestrial ecotoxic impacts of anthropogenic metal emissions?

If bio-based plastics is the answer, what was the question?

Improved comparative toxicity potentials of 23 metallic elements in soils: addressing solid- and liquid-phase speciation in environmental fate, exposure, and effects

Improving substance information in usetox®, part 1: discussion on data and approaches for estimating freshwater ecotoxicity effect factors

Improving substance information in usetox®, part 2: Data for estimating fate and ecosystem exposure factors

Indicators for environmental sustainability
Integrating environmental impacts into cost-benefit analysis: The value of environmental pollutants
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Is Earth recognized as a finite system in corporate responsibility reporting?
Publication: Research - peer-review › Journal article – Annual report year: 2016

LCIA framework and cross-cutting issues guidance within the UNEP-SETAC Life Cycle Initiative
Publication: Research - peer-review › Journal article – Annual report year: 2017

Measuring and increasing the sustainability of biochemicals: contrasting feedstock’s, biorefinery processes, and upscaling
Publication: Research - peer-review › Poster – Annual report year: 2017

Metal toxicity characterization factors for marine ecosystems: considering the importance of the estuary for freshwater emissions
Publication: Research - peer-review › Journal article – Annual report year: 2017

Response to Comment on "Weighting and Aggregation in Life Cycle Assessment: Do Present Aggregated Single Scores Provide Correct Decision Support ?”
Publication: Research - peer-review › Comment/debate – Annual report year: 2017

Spatially explicit fate factors of waterborne nitrogen emissions at the global scale
Publication: Research - peer-review › Journal article – Annual report year: 2017

Sustainability assessment of stormwater management systems
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

The Challenges of Applying Planetary Boundaries as a Basis for Strategic Decision-Making in Companies with Global Supply Chains
Publication: Research - peer-review › Journal article – Annual report year: 2017

Toward meaningful evaluation of climate change impacts in sustainability assessment of bioplastics
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

USEtox® 2.0 Documentation (Version 1.00)
Publication: Research › Report – Annual report year: 2017

Advancing absolute sustainability assessments of products with a new Planetary Boundaries based life-cycle impact assessment methodology
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

A proposal to measure absolute environmental sustainability in lifecycle assessment
Publication: Research - peer-review › Journal article – Annual report year: 2016

Area of Concern: A new paradigm in life cycle assessment for the development of footprint metrics
Publication: Research - peer-review › Journal article – Annual report year: 2015

Assessing environmental performance of hydrothermal carbonization of wet biomass at industry-relevant scales
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Assessment of Metal Toxicity in Marine Ecosystems: Comparative Toxicity Potentials for Nine Cationic Metals in Coastal Seawater
Challenges in implementing a Planetary Boundaries based Life-Cycle Impact Assessment methodology

Circular and safe?

Circular and Safe?

Contribution of waterborne nitrogen emissions to hypoxia-driven marine eutrophication: modelling of damage to ecosystems in life cycle impact assessment (LCIA)

Effect factors for marine eutrophication in LCIA based on species sensitivity to hypoxia

Effect factors for terrestrial acidification in Brazil

Environmental impacts of flood control measures in climate change adaptation strategies

Environmental performance of hydrothermal carbonization of four wet biomass waste streams at industry-relevant scales

Functional unit and product functionality—addressing increase in consumption and demand for functionality in sustainability assessment with LCA

Global guidance on environmental life cycle impact assessment indicators: Progress and case study

How much biochar does gasification energy need to be carbon neutral?

How to consistently make your product, technology or system more environmentally-sustainable?

Integrating LCA and Risk Assessment for Decision Support

Land Use in LCIA: an absolute scale proposal for Biotic Production Potential

Life cycle assessment for policy-making: Case of the human health impacts from national NMVOC emissions in the EU-27 between 2000 and 2010

Life cycle assessment of stormwater management in the context of climate change adaptation
Life cycle assessment of stormwater management systems for Nørrebro, Copenhagen
Publication: Research - peer-review › Poster – Annual report year: 2016

Limitations and opportunities of combining Cradle to Grave and Cradle-to-Cradle approaches to support the circular economy
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Mainstreaming life cycle thinking through a consistent approach to footprints
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Natural fibre selection for composite eco-design
Publication: Research - peer-review › Journal article – Annual report year: 2016

On the need for integrating LCA into decision making
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Sensitivity analysis of the use of Life Cycle Impact Assessment methods: a case study on building materials
Publication: Research - peer-review › Journal article – Annual report year: 2016

Supply Chain Management in Industrial Symbiosis Networks
Publication: Research › Ph.D. thesis – Annual report year: 2016

Testing the environmental performance of urban agriculture as a food supply in northern climates
Publication: Research - peer-review › Journal article – Annual report year: 2016

The development of an operational LCIA-methodology with impact categories based on the control variables in the Planetary Boundaries framework
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

The role of manufacturing in affecting the social dimension of sustainability
Publication: Research - peer-review › Journal article – Annual report year: 2016

Urban versus conventional agriculture, taxonomy of resource profiles: a review
Publication: Research - peer-review › Journal article – Annual report year: 2016

Weighting and Aggregation in Life Cycle Assessment: Do Present Aggregated Single Scores Provide Correct Decision Support?
Publication: Research - peer-review › Journal article – Annual report year: 2016

Advances in assessing terrestrial toxicity of metal emissions for improved sustainability characterization of technologies
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

A marine eutrophication impacts assessment method in LCIA coupling coastal ecosystems exposure to nitrogen and species sensitivity to hypoxia
Publication: Research › Conference abstract for conference – Annual report year: 2015

Assessing comparative terrestrial ecotoxicity of Cd, Co, Cu, Ni, Pb, and Zn: The influence of aging and emission source
Publication: Research - peer-review › Journal article – Annual report year: 2015

Better, but good enough? Indicators for absolute environmental sustainability in a life cycle perspective
Publication: Research › Ph.D. thesis – Annual report year: 2015
Better – But is it Good Enough? On the Need to Consider Both Eco-efficiency and Eco-effectiveness to Gauge Industrial Sustainability

Coupling ecosystems exposure to nitrogen and species sensitivity to hypoxia: modelling marine eutrophication in LCIA

Eco-efficient production of spring barley in a changed climate: A Life Cycle Assessment including primary data from future climate scenarios

Experimental determinations of soil copper toxicity to lettuce (Lactuca sativa) growth in highly different copper spiked and aged soils

Exploring the planetary boundary for chemical pollution

Exposure factors for marine eutrophication impacts assessment based on a mechanistic biological model

Fate factors for airborne contributions to acidification, eutrophication and photochemical ozone formation in Brazil

From LCC to LCA Using a Hybrid Input Output Model – A Maritime Case Study

From nitrogen enrichment to oxygen depletion: a mechanistic model of coastal marine ecosystems response

From species sensitivity to hypoxia to effect factors modelling in life cycle impact assessment (LCIA)

How do we assess "sustainability" with proper indicators?

How to implement the circular economy in the beer packaging sector through eco-efficiency- and eco-effectiveness- based solutions

How to manage uncertainty in future Life Cycle Assessment (LCA) scenarios addressing the effect of climate change in crop production

Introducing carrying capacity-based normalisation in LCA: framework and development of references at midpoint level

Introducing Life Cycle Impact Assessment
Introducing life cycle thinking in product development – A case from Siemens Wind Power
Publication: Research - peer-review › Journal article – Annual report year: 2015

LCA as a decision support tool in policy making: the case study of Danish spring barley production in a changed climate
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Life Cycle Impact Assessment
Publication: Research › Book – Annual report year: 2015

Necessidade de uma metodologia de Avaliação de Impacto do Ciclo de Vida espacialmente diferenciada para o Brasil
Publication: Research - peer-review › Paper – Annual report year: 2015

Normalisation
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Opportunities and challenges for including Planetary Boundaries in Life Cycle Assessment
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Power generation from chemically cleaned coals: do environmental benefits of firing cleaner coal outweigh environmental burden of cleaning?
Publication: Research - peer-review › Journal article – Annual report year: 2015

Preparing the ground for an operational handling of long-term emissions in LCA
Publication: Research - peer-review › Journal article – Annual report year: 2016

Quantifying spatially derived carrying capacity occupation: Framework for characterisation modelling and application to terrestrial acidification
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Quantifying Urban Foodprints and Mitigation Opportunities
Publication: Research - peer-review › Poster – Annual report year: 2015

Strengthening the Link between Life Cycle Assessment and Indicators for Absolute Sustainability To Support Development within Planetary Boundaries
Publication: Research - peer-review › Journal article – Annual report year: 2015

Sustainability in highly automated production systems: Methodology and algorithm for assessing production lines in the planning phase
Publication: Research - peer-review › Poster – Annual report year: 2016

Testing the assertion that urban agriculture is sustainable
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

The need for an established allocation method when assessing absolute sustainability on a product level
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

The potential contribution to climate change mitigation from temporary carbon storage in biomaterials
Publication: Research - peer-review › Journal article – Annual report year: 2015

The USEtox story: A survey of model developer visions and user requirements
Publication: Research - peer-review › Journal article – Annual report year: 2014
Viewpoint: Making Sense of the Minefield of Footprint Indicators
Publication: Research - peer-review › Journal article – Annual report year: 2015

20 years of LCA applied to waste management systems: what can we learn?
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Assessment of urgent impacts of greenhouse gas emissions—the climate tipping potential (CTP)
Publication: Research - peer-review › Journal article – Annual report year: 2014

Beyond Safe Operating Space: Finding Chemical Footprinting Feasible
Publication: Research - peer-review › Journal article – Annual report year: 2014

Can carbon footprint be an acceptable indicator of environmental sustainability?
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Characterization modelling of aquatic ecotoxicity from metal emission to be applied in Life Cycle Impact Assessment
Publication: Research › Ph.D. thesis – Annual report year: 2015

Chemical footprint assessment: presentation of method and application to a case study involving different spatial scales
Publication: Research › Conference abstract for conference – Annual report year: 2015

Chemical Footprint Method for Improved Communication of Freshwater Ecotoxicity Impacts in the Context of Ecological Limits
Publication: Research - peer-review › Journal article – Annual report year: 2014

Chemical Footprints: Thin Boundaries Support Environmental Quality Management
Publication: Research - peer-review › Comment/debate – Annual report year: 2014

Confronting Uncertainty in Life Cycle Assessment Used for Decision Support: Developing and Proposing a Taxonomy for LCA Studies
Publication: Research - peer-review › Journal article – Annual report year: 2014

Coupling habitat exposure to nitrogen and species sensitivity to hypoxia – LCIA methodology applied to marine eutrophication
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Development of characterization factors for metals in coastal seawater
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Development of Comparative Toxicity Potentials of 14 cationic metals in freshwater
Publication: Research - peer-review › Journal article – Annual report year: 2014

Elucidating differences in metal absorption efficiencies between terrestrial soft-bodied and aquatic species
Publication: Research - peer-review › Journal article – Annual report year: 2014

Enabling optimization in LCA: from "ad hoc" to "structural" LCA approach—based on a biodiesel well-to-wheel case study
Publication: Research - peer-review › Journal article – Annual report year: 2013

Environmental assessment of biomass based materials: With special focus on the climate effect of temporary carbon storage
Publication: Research › Ph.D. thesis – Annual report year: 2014
Life Cycle Engineering and Sustainable Manufacturing
Publication: Research - peer-review › Journal article – Annual report year: 2014

Long term impacts of international outsourcing of manufacturing on sustainability
Publication: Research - peer-review › Journal article – Annual report year: 2014

Managing human health impacts from chemical emissions: Learnings from analysis of national NMVOC emissions and impacts in the EU-27 in 2000-2010
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Proposal for a new normalization reference in LCA based on "safe operating space": presentation of framework and global factors at midpoint level
Publication: Research › Conference abstract for conference – Annual report year: 2015

Put numbers on the sustainability
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Review of LCA studies of solid waste management systems – Part II: Methodological guidance for a better practice
Publication: Research - peer-review › Journal article – Annual report year: 2014

Review of LCA studies of solid waste management systems – Part I: Lessons learned and perspectives
Publication: Research - peer-review › Journal article – Annual report year: 2014

Spatially differentiated comparative toxicity potentials of metals in global coastal seawater
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Spatially-explicit LCIA model for marine eutrophication as a tool for sustainability assessment
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Towards a more robust fate modeling of metals’ long-term emissions in an LCIA context
Publication: Research - peer-review › Poster – Annual report year: 2014

Urban agricultural typologies and the need to quantify their potential to reduce a city's environmental 'foodprint'
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Will organic photovoltaic technology render benefits in a 30-year horizon?
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Absolute versus Relative Environmental Sustainability: What can the Cradle-to-Cradle and Eco-efficiency Concepts Learn from Each Other?
Publication: Research - peer-review › Journal article – Annual report year: 2013

A critical review of life cycle assessment applied to solid waste management systems
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Addressing Geographic Variability in the Comparative Toxicity Potential of Copper and Nickel in Soils
Publication: Research - peer-review › Journal article – Annual report year: 2013

Approaching the planetary boundary for chemical pollution through a chemical footprint indicator – exploring feasibility via two case studies
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013
Assessing Environmental Sustainability of Remediation Technologies in a Life Cycle Perspective is Not So Easy
Publication: Research - peer-review › Journal article – Annual report year: 2013

Challenges in LCA-based decision making involving heavy metals long-term emissions from landfills
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Development of characterization factors for metals in 7 EU water archetypes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Drivers and barriers for implementation of environmental strategies in manufacturing companies
Publication: Research - peer-review › Journal article – Annual report year: 2013

Endpoint characterisation modelling for marine eutrophication in LCIA
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Environmental challenges of anthropogenic metals flows and cycles
Publication: Research - peer-review › Report – Annual report year: 2012

Fate process modelling in LCI: improving inventory quality or double counting?
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Final evaluation of the newly developed characterisation and normalisation factors in an LCA case study - Paper production and printing
Publication: Research › Report – Annual report year: 2013

Identifying best existing practice for characterization modeling in life cycle impact assessment
Publication: Research - peer-review › Journal article – Annual report year: 2013

Inclusion of Climatic Tipping Potential in LCA
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Keeping USEtox up-to-date: What is coming and how you can contribute
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Key issues and options in accounting for carbon sequestration and temporary storage in life cycle assessment and carbon footprinting
Publication: Research - peer-review › Journal article – Annual report year: 2012

LCA as a support tool for forecasting scenarios: the case study of Danish spring barley production in a changing climate
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Life-cycle and freshwater withdrawal impact assessment of water supply technologies
Publication: Research - peer-review › Journal article – Annual report year: 2013

Mapping and characterization of LCA networks
Publication: Research - peer-review › Journal article – Annual report year: 2013
Modelling of pesticide emissions for Life Cycle Inventory analysis: Model development, applications and implications
Publication: Research › Ph.D. thesis – Annual report year: 2014

Need for relevant timescales when crediting temporary carbon storage
Publication: Research - peer-review › Journal article – Annual report year: 2012

Potential for optimized production and use of rapeseed biodiesel. Based on a comprehensive real-time LCA case study in Denmark with multiple pathways
Publication: Research - peer-review › Journal article – Annual report year: 2012

Quantification of urban metabolism through coupling with the life cycle assessment framework: concept development and case study: Letter
Publication: Research - peer-review › Journal article – Annual report year: 2013

Recommended assessment framework, method and characterisation and normalisation factors for ecosystem impacts of eutrophying emissions: phase 3 (report, model and factors)
Publication: Research - peer-review › Report – Annual report year: 2013

Spatially-explicit LCIA endpoint model for marine eutrophication and application to future climatic-driven pressures
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Spatially-explicit LCIA endpoint model for marine eutrophication and application to future climatic-driven pressures
Publication: Research › Sound/Visual production (digital) – Annual report year: 2013

Supply chain coordination in industrial symbiosis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Sustainability of abrasive processes
Publication: Research - peer-review › Journal article – Annual report year: 2013

Can carbon footprint serve as a comprehensive tool for assessing and managing environmental sustainability?
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Challenges in life cycle assessments of waste application to agricultural land
Publication: Research › Sound/Visual production (digital) – Annual report year: 2013

Defining and mapping LCA networks: Initial results
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Environmental impacts and improvement prospects for environmental hotspots in the production of palm oil derived biodiesel in Malaysia
Publication: Research › Ph.D. thesis – Annual report year: 2012

Evaluation of spatial variability of metal bioavailability in soils using geostatistics
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Exploring the feasibility of chemical footprint assessment - the case of eco-toxicological impacts on freshwater from pesticide use in Denmark
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Helhedsorienteret miljøvurdering af teknologier i et livscyklusperspektiv
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012
Improving life cycle assessment methodology for the application of decision support: Focusing on the statistical value chain
Publication: Research › Ph.D. thesis – Annual report year: 2012

Including urgency in global warming assessment in LCA
Publication: Research › Poster – Annual report year: 2012

Learning by doing - bringing real-life case studies into the classroom
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Life cycle assessment of central softening of very hard drinking water
Publication: Research - peer-review › Journal article – Annual report year: 2012

Limitations of Carbon Footprint as Indicator of Environmental Sustainability
Publication: Research - peer-review › Journal article – Annual report year: 2012

Mapping and characterization of LCA networks
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Methodology for systematic analysis and improvement of manufacturing unit process life-cycle inventory (UPLCI)—CO2PE! initiative (cooperative effort on process emissions in manufacturing). Part 1: Methodology description
Publication: Research - peer-review › Journal article – Annual report year: 2012

Methodology for systematic analysis and improvement of manufacturing unit process life cycle inventory (UPLCI) CO2PE! initiative (cooperative effort on process emissions in manufacturing). Part 2: case studies
Publication: Research - peer-review › Journal article – Annual report year: 2012

Modelling health effects from inhalation of nano-objects
Publication: Research › Poster – Annual report year: 2012

PestLCI 2.0: a second generation model for estimating emissions of pesticides from arable land in LCA
Publication: Research - peer-review › Journal article – Annual report year: 2012

Publication: Research - peer-review › Journal article – Annual report year: 2012

Sustainability assessment of water supply in Copenhagen: Alternatives fulfilling the EU-Water Framework Directive
Publication: Research - peer-review › Poster – Annual report year: 2012

Sustainability assessment of water supply in Copenhagen - what is the impact of freshwater withdrawal?
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Sustainability evaluation of water supply technologies: By using life-cycle and freshwater withdrawal impact assessment & multi-criteria decision analysis
Publication: Research › Ph.D. thesis – Annual report year: 2012

Towards energy and resource efficient manufacturing: A processes and systems approach
Publication: Research - peer-review › Journal article – Annual report year: 2012
Valg af afværge med inddragelse af livscyklusvurdering (LCA)
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Validation of PestLCI 2.0, an updated and expanded model to estimate pesticide emissions for use in LCI
Publication: Research › Poster – Annual report year: 2012

A bright future for addressing chemical emissions in life cycle assessment
Publication: Research - peer-review › Journal article – Annual report year: 2011

Accounting for the potential value of temporary carbon storage: The issue of choosing relevant time horizons
Publication: Research › Poster – Annual report year: 2011

Addressing Speciation in the Effect Factor for Characterisation of Freshwater Ecotoxicity: The case of copper
Publication: Research - peer-review › Journal article – Annual report year: 2011

A Methodology for Inclusion of Terrestrial Ecotoxic Impacts of Metals in Life Cycle Impact Assessment
Publication: Research › Conference abstract in proceedings – Annual report year: 2011

An improved model for estimating pesticide emissions for agricultural LCA
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2011

Are Free Ion Activity Models Sufficient Alternatives to Biotic Ligand Models in Evaluating Metal Toxic Impacts in Terrestrial Environments?
Publication: Research › Poster – Annual report year: 2011

Assessing the impacts of industrial water use in Life Cycle Assessment
Publication: Research - peer-review › Journal article – Annual report year: 2011

Assessing the most Sustainable Alternative for Production of drinking water - ASTA a decision support system
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2011

Assessing the most sustainable alternative for production of drinking water – ASTA a decision support system Alternatives fulfilling the EU-Water Framework Directive
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2011

Atmospheric fate of non volatile and ionizable compounds
Publication: Research - peer-review › Journal article – Annual report year: 2011

Can freshwater toxicity models (FIAM and BLM) be applicable to marine ecosystem?
Publication: Research › Poster – Annual report year: 2011

Climate change damage functions in LCA: – (2) data availability and selection of indicators
Publication: Research - peer-review › Poster – Annual report year: 2011

Climate change damage functions in LCA – (1) from global warming potential to natural environment damages
Publication: Research › Conference abstract for conference – Annual report year: 2011

Comparison of metal toxic impacts between aquatic and terrestrial organisms: is the free ion concentration a sufficient descriptor?
Publication: Research › Conference abstract in proceedings – Annual report year: 2011
USEtox human exposure and toxicity factors for comparative assessment of toxic emissions in life cycle analysis: sensitivity to key chemical properties
Publication: Research › Peer review › Journal article – Annual report year: 2011

Environmental assessment of contaminated site remediation in a life cycle perspective
Publication: Research › Ph.D. thesis – Annual report year: 2010

Developing the Social Life Cycle Assessment: - addressing issues of validity and usability
Publication: Research › Ph.D. thesis – Annual report year: 2010

Ability of carbon footprint to reflect the environmental burden of a product or service – an empirical study
Publication: Research › Poster – Annual report year: 2010

Assessing the validity of impact pathways for child labour and well-being in Social Life Cycle Assessment
Publication: Research › Peer review › Journal article – Annual report year: 2010

Carbon footprint as environmental performance indicator for the manufacturing industry
Publication: Research › Peer review › Journal article – Annual report year: 2010

Characterisation of social impacts in LCA. Part 1: Development of indicators for labour rights
Publication: Research › Peer review › Journal article – Annual report year: 2010

Characterisation of social impacts in LCA. Part 2: implementation in six company case studies
Publication: Research › Peer review › Journal article – Annual report year: 2010

Defining the baseline in social life cycle assessment
Publication: Research › Peer review › Journal article – Annual report year: 2010

EASEWASTE-life cycle modeling capabilities for waste management technologies
Publication: Research › Peer review › Journal article – Annual report year: 2010

Environmental Impacts of Remediation of a Trichloroethene-Contaminated Site: Life Cycle Assessment of Remediation Alternatives
Publication: Research › Peer review › Journal article – Annual report year: 2010

From emission to ecotoxicity: comparative assessment of fate and ecotoxicity in LCA using USEtox
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

Publication: Research › Peer review › Journal article – Annual report year: 2010

LCA as decision support for evaluation of environmental impacts of site remediation scenarios
Publication: Research › Peer review › Conference abstract in proceedings – Annual report year: 2010

Life cycle assessment (LCA) as a decision-support tool for the evaluation of environmental impacts of site remediation on the global, regional and local scale
Publication: Research › Article in proceedings – Annual report year: 2010

Life cycle assessment of soil and groundwater remediation technologies: literature review
Publication: Research › Peer review › Journal article – Annual report year: 2010
Livscyklusvurdering (LCA) som beslutningsstøtte ved valg af afvægmetoder
Publication: Research › Article in proceedings – Annual report year: 2010

Models for waste life cycle assessment: Review of technical assumptions
Publication: Research › Journal article – Annual report year: 2010

Quantifying sustainability of genetically modified crops
Publication: Research › Poster – Annual report year: 2010

Simplified methodology for inclusion of climate parameters in chemical prioritization as applied in life cycle impact assessment and risk assessment – PBT(+C) prioritization
Publication: Research › Poster – Annual report year: 2010

The clearwater consensus: the estimation of metal hazard in fresh water
Publication: Research › Journal article – Annual report year: 2010

Inclusion of Social Aspects in Life Cycle Assessment of Products: Development of a Methodology for Social Life Cycle Assessment
Publication: Research › Ph.D. thesis – Annual report year: 2009

Bæredygtig biodiesel med enzymer
Publication: Communication › Journal article – Annual report year: 2009

C balance, carbon dioxide emissions and global warming potentials in LCA-modeling of waste management systems
Publication: Research › Journal article – Annual report year: 2009

Deliverable 4.2: Methodology for including specific biological effects and pathogen aspects into LCA
Publication: Research › Report – Annual report year: 2009

Development in methodologies for modelling of human and ecotoxic impacts in LCA
Publication: Research › Conference abstract in proceedings – Annual report year: 2009

Effects of Globalisation on Carbon Footprints of Products.
Publication: Research › Journal article – Annual report year: 2009

Environmental Sustainability Analysis of Biodiesel Production: A Comparative Analysis of Different Production Schemes
Publication: Research › Sound/Visual production (digital) – Annual report year: 2009

LCA as decision support for remediation of contaminated sites: Assessment of groundwater impacts
Publication: Research › Conference abstract in proceedings – Annual report year: 2009

Lifecycle assessment of fuel ethanol from sugarcane in Brazil
Publication: Research › Journal article – Annual report year: 2009

Life cycle assessment of offset printed matter with EDIP97: – how important are emissions of chemicals?
Publication: Research › Journal article – Annual report year: 2009

Recent developments in Life Cycle Assessment
Publication: Research › Journal article – Annual report year: 2009
Relevance and feasibility of Social Life Cycle Assessment from a Company Perspective
Publication: Research - peer-review › Journal article – Annual report year: 2009

The influence of speciation on the ecotoxic effects of heavy metals in aquatic systems
Publication: Research › Poster – Annual report year: 2009

Use of LCA as decision support for the selection of remedial strategies for remediation of contaminated soil and groundwater: Abstract TU 245
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2009

Use of LCA as decision support for the selection of remedial strategies for remediation of contaminated soil and groundwater
Publication: Research › Poster – Annual report year: 2009

Consequential life cycle inventory modelling of land use induced by crop consumption
Publication: Research › Ph.D. thesis – Annual report year: 2008

Influence of wastewater characteristics on handling food-processing industry wastewaters: Methane potential and sources of toxicity
Publication: Research › Ph.D. thesis – Annual report year: 2008

Assessing social impacts in a life cycle perspective-Lessons learned
Publication: Research - peer-review › Journal article – Annual report year: 2008

Biogenic carbon accounting in LCA-modelling: Comparison of different criteria
Publication: Research › Article in proceedings – Annual report year: 2008

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Publication: Research - peer-review › Journal article – Annual report year: 2008

C balance, carbon dioxide emissions and global warming potentials in LCA-modelling of waste management systems
Publication: Research › Article in proceedings – Annual report year: 2008

Development of a recommended Life Cycle Impact Assessment methodology - a European step towards a worldwide method
Publication: Research › Conference abstract in proceedings – Annual report year: 2008

Development of recommended characterisation factors for primary and secondary particulate matter
Publication: Research › Conference abstract in proceedings – Annual report year: 2008

Gone… but not away: Addressing the problem of long-term impacts from landfills in LCA
Publication: Research - peer-review › Journal article – Annual report year: 2008

Identification of best practice: Development of basis for a recommended LCIA methodology for the European Commission
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2008

Identification of best practice : Development of basis for a recommended LCIA methodology for the European Commission
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2008

International consensus model for comparative assessment of chemical emissions in LCA
Publication: Research › Conference abstract in proceedings – Annual report year: 2008
Market Forces and the need to design for the environment
Publication: Research - peer-review › Journal article – Annual report year: 2008

Methodologies for Social Life Cycle Assessment: A review
Publication: Research - peer-review › Journal article – Annual report year: 2008

Milestone 4.1 • First draft on complemented LCA methodology
Publication: Research › Report – Annual report year: 2008

REVIEW OF EXISTING LCA STUDIES ON WASTE WATER TREATMENT TECHNOLOGIES
Publication: Research › Poster – Annual report year: 2008

Review of methodologies for Social LCA
Publication: Research - peer-review › Poster – Annual report year: 2008

Standardisation Efforts to Measure Greenhouse Gases and 'Carbon Footprinting' for Products
Publication: Research › Journal article – Annual report year: 2008

The role of heavy metal speciation in the determination of toxicity in aquatic systems
Publication: Research › Poster – Annual report year: 2008

USEtox - The UNEP-SETAC toxicity model: recommended characterisation factors for human toxicity and freshwater ecotoxicity in Life Cycle Impact Assessment
Publication: Research - peer-review › Journal article – Annual report year: 2008

Waste management modeling with PC-based model EASEWASTE
Publication: Research - peer-review › Journal article – Annual report year: 2008

Assessing the social impacts of the biofuel lifecycle
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2007

Course Content for Life Cycle Engineering and EcoDesign
Publication: Research - peer-review › Journal article – Annual report year: 2007

Deliverable 4.1 Homogeneous LCA methodology agreed by NEPTUNE and INNOWATECH
Publication: Research › Report – Annual report year: 2007

Development of Brazilian normalization references from the combined study of emissions data and Brazilian energy matrix
Publication: Research › Poster – Annual report year: 2007

Erratum: Evaluation of Ecotoxicity Effect Indicators for Use in LCIA: Eq. 8 was lacking on p. 32, No. 1, Vol. 12, 2007
Publication: Research - peer-review › Journal article – Annual report year: 2006

Evaluation of Ecotoxicity Effect Indicators for Use in LCIA
Publication: Research - peer-review › Journal article – Annual report year: 2007

Experience with the use of LCA-modelling (EASEWASTE) in waste management
Publication: Research - peer-review › Journal article – Annual report year: 2007
Fate and Distribution Modelling of Metals in Life Cycle Impact Assessment
Publication: Research - peer-review › Journal article – Annual report year: 2007

GM-troph – a low data demand ecotoxicity effect indicator for use in LCIA
Publication: Research - peer-review › Journal article – Annual report year: 2007

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Publication: Research › Poster – Annual report year: 2007

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Publication: Research › Conference abstract for conference – Annual report year: 2007

Life cycle assessment of disposal of residues from municipal solid waste incineration: Recycling of bottom ash in road construction or landfilling in Denmark evaluated in the ROAD-RES model
Publication: Research - peer-review › Journal article – Annual report year: 2007

Life cycle assessment of the wave energy converter: Wave Dragon
Publication: Research › Poster – Annual report year: 2007

Modelling of environmental impacts of solid waste landfilling within the life-cycle analysis program EASEWASTE
Publication: Research - peer-review › Journal article – Annual report year: 2007

New methodology in life cycle impact assessment (LCIA) of waste water treatment
Publication: Research › Poster – Annual report year: 2007

New methodology in life cycle impact assessment (LCIA) of waste water treatment
Publication: Research › Poster – Annual report year: 2007

The UNEP/SETAC recommended characterisation factors for human health and aquatic ecotoxicity: results and future
Publication: Research › Poster – Annual report year: 2007

Towards a consensus model in chemical characterisation modelling for LCA: comparison and harmonisation of models for fate and ecotoxicity effects
Publication: Research › Poster – Annual report year: 2007

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Publication: Research › Conference abstract for conference – Annual report year: 2007

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Publication: Research › Conference abstract in proceedings – Annual report year: 2007

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Publication: Research › Conference abstract in proceedings – Annual report year: 2007

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Publication: Research › Ph.D. thesis – Annual report year: 2006

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Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2006
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Publication: Research - peer-review › Journal article – Annual report year: 2006

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Publication: Research › Article in proceedings – Annual report year: 2006

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

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Publication: Research - peer-review › Journal article – Annual report year: 2006

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Publication: Research › Journal article – Annual report year: 2006

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Publication: Research - peer-review › Journal article – Annual report year: 2006

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Publication: Research - peer-review › Journal article – Annual report year: 2006

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Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2006
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Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2006

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Publication: Research - peer-review › Report – Annual report year: 2006

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Publication: Research › Ph.D. thesis – Annual report year: 2005

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Publication: Research - peer-review › Journal article – Annual report year: 2005

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Publication: Research - peer-review › Journal article – Annual report year: 2005

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Publication: Research - peer-review › Journal article – Annual report year: 2005

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Publication: Research - peer-review › Journal article – Annual report year: 2005

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Publication: Research - peer-review › Journal article – Annual report year: 2005

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

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Publication: Research - peer-review › Journal article – Annual report year: 2004

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Publication: Research - peer-review › Book – Annual report year: 2004

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Publication: Research - peer-review › Journal article – Annual report year: 2004

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

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Publication: Research - peer-review › Journal article – Annual report year: 2004

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Publication: Research - peer-review › Conference article – Annual report year: 2004
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Publication: Research › Article in proceedings – Annual report year: 2004

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Publication: Research › Article in proceedings – Annual report year: 2004

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Publication: Research › Journal article – Annual report year: 2003

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Publication: Research › Report – Annual report year: 2004

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Publication: Research › Article in proceedings – Annual report year: 2004

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Publication: Research › Journal article – Annual report year: 2004

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Publication: Research › Poster – Annual report year: 2004

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Publication: Research › Book – Annual report year: 2004

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Publication: Research › Article in proceedings – Annual report year: 2004
Comparison of three different LCIA methods: EDIP97, CML2001 and Eco-indicator 99. Does it matter which one you choose
Publication: Research - peer-review › Journal article – Annual report year: 2003

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

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Publication: Research › Conference abstract in proceedings – Annual report year: 2003

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Publication: Research › Article in proceedings – Annual report year: 2003

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

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Publication: Research › Book chapter – Annual report year: 2003

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Publication: Research › Report – Annual report year: 2003

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Publication: Research › Report – Annual report year: 2002
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Publication: Research › Report – Annual report year: 2002

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2000
Principles and methods for LCA
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

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Publication: Research › Article in proceedings – Annual report year: 1999

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Publication: Research - peer-review › Journal article – Annual report year: 1999

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Publication: Research › Article in proceedings – Annual report year: 1999

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Publication: Research - peer-review › Journal article – Annual report year: 1999

Life cycle impact assessment - Danish recommendations
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999
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Publication: Research › Article in proceedings – Annual report year: 1999

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Publication: Research › Article in proceedings – Annual report year: 1999

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Publication: Research - peer-review › Journal article – Annual report year: 1999

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Publication: Research › Article in proceedings – Annual report year: 1998

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Publication: Research - peer-review › Journal article – Annual report year: 1998

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Publication: Research - peer-review › Journal article – Annual report year: 1998

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Publication: Research - peer-review › Journal article – Annual report year: 1998

Elements in a new sustainable industrial culture - Environmental assessment in product development
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

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Publication: Research - peer-review › Book – Annual report year: 1998

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Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

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Publication: Research - peer-review › Book chapter – Annual report year: 1998

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Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

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Publication: Research - peer-review › Journal article – Annual report year: 1998

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Publication: Research › Article in proceedings – Annual report year: 1998
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Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

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Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

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Publication: Research - peer-review › Book chapter – Annual report year: 1996

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Publication: Research › Article in proceedings – Annual report year: 1996

The Dobris assessment of the state of the environment in Europe
Publication: Research › Journal article – Annual report year: 1996

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Publication: Research - peer-review › Article in proceedings – Annual report year: 1994

Projects:

Sustainability Impact Assessment for Circular Economy
Project: PhD

Climate tipping indicators for improved environmental sustainability assessment of bioplastics
Project: PhD

Environmental sustainability assessment of the aquaculture sector at global and national scales
Project: PhD

Development of environmental footprints for large-scale systems
Project: PhD

Dynamic optimization of total value and environmental performance: Use of real time property data for improved Facilities Management
Project

Dynamic optimization of total value and environmental performance: Use of real time property data for improved Facilities Management
Project: PhD

Addressing inorganic chemicals in life cycle impact assessment
Project: PhD

Effective Implementation of Sustainability Approaches
Project: PhD

Life-cycle assessment of climate adaption technologies for stormwater management
Project: PhD
Integrating Supply Chain Hot Spot Analysis and Business Risk Management  
Project: PhD

Integration of boundaries for selected planetary threads into life cycle assessment  
Project: PhD

Water Supplies' Water Footprint  
Project: PhD

Environmental sustainability assessment of bio-products based on agricultural crop and crop residue feedstocks  
Project: PhD

Eco-design 2.0 - Quantitative Eco-design within Drives and Automation Technologies  
Project: PhD

Development of a Life Cycle Impact Assessment methodology for Brazil  
Project: PhD

Development of a Sustainability Assessment method for robotic manufacturing systems  
Project: PhD

Quantifying the Sustainability of Consumer Products: Focusing on Chemical Exposures  
Project: PhD

Hybrid Life-cycle-assessment-urban-metabolism model as a framework for quantifying the contributions of urban agriculture to the sustainability of urban food system  
Project: PhD

Automation and Robotics for EUropean Sustainable Manufacturing  
Project

Impacts of waterborne nitrogen emissions to hypoxia-driven marine eutrophication: modelling of damage to ecosystems in life cycle impact assessment (LC IA)  
Project: PhD

Sustainable assessment of full chain bioenergy production  
Project: PhD

Absolut miljømæssig bæredygtighed af industrielle aktiviteter  
Project: PhD

Life cycle impact assessment of long-term emissions from landfills  
Project: PhD

Advanced planning approaches for small- and medium-sized enterprises  
Project: PhD

Sustainable Management of Water Treatment Technologies  
Project: PhD

An integrated Multi-level Framework for Life Cycle Sustainability Assessment Case study: Production of High-grade Concrete from Construction and Demol
New high-quality mined nanomaterials mass produced for plastic and wood-plastic nanocomposites

Development and application of a standardized methodology for the PROspective SUstainability assessment of Technologies

Environmental assessment of biomass based materials

Modelling of pesticide emissions for Life Cycle Inventory analysis: model development, applications and implications

Life cycle assessment applied to nanomaterials in solid waste management - Focus on human health impact assessment

Development of a methodology for inclusion of terrestrial ecotoxic impacts of metals in life cycle impact assessment

Climate damage modeling in LCA – quantitative sustainability assessment of future technologies

Development of genetically modified cereals adapted to the increased CO2 levels of the future

LC-IMPACT: Development and application of environmental Life Cycle Impact assessment Methods for imProved sustainability Characterisation of Technologies

Formation of Life Cycle Inventory (LCI) Database for Crude Palm Oil Production and Palm Oil Based Bio-diesel Refining in Malaysia

Life Cycle Impact Assessment for waste management systems

Livscyklus- og risikoanalyse af alternative teknologier og ressourcer til drikkevandsforsyningen

Environmental Sustainability Assessment of Biodiesel Production

Supply chain modelling for professionally prepared meals

Afværgestrategier for in-situ oprensning af chlorerede opløsningsmidler - udvikling af ramme for livscyklusvurdering og cost-effectiveness analyse
Life Cycle Impact Assessment for Waste Management Systems  
Project: PhD

Waste Management Strategies of the Future: A Consistent European and National Technology Platform  
Project: PhD

Bæredygtig produktion - vurdering af den sociale og miljømæssige dimension  
Project: PhD

Waste prevention, waste policy and innovation  
Project

Arealanvendelse og toksikologi i konsekvens-LCA  
Project: PhD

Development of a Flexible Bioprocess for Handling and Recycling Seasonal Industrial Wastewaters  
Project: PhD

Inddragelse af sociale, sundheds- og sikkerhedsmæssige aspekter i livscyklusvurdering af produkter og servideydelser  
Project: PhD

Integration of Environmental Life Cycle Information Into Cad-Systems for Support of Design for Environment  
Project: PhD

LCA-center Denmark  
Project

Pesticide dispersion model  
Project

Miljøvurdering af restprodukters genanvendelse  
Project: PhD

Kemikalieorienteret produktmiljøvurdering  
Project: PhD

Operational Models and Information tools for Industrial applications of eco/TOXicological impact assessments  
Project

Miljøkommunikation i varekæder  
Project: PhD

Modeller til miljøvurdering af affaldssystemer  
Project: PhD

Kemikalieorienteret produktvurdering  
Project: PhD

LCA and residual products  
Project
Assessment of sustainable wastewater handling in sewerless settl.

LCA method development and consensus

LCA-method development and consensus creation - inclusion of spatial information in life cycle impact assessment

Spatial differentiation in life cycle assessment

LCAGAPS - Development and application of complementary components to the existing detailed life cycle assessment methodology

Activities:

Better but is it good enough? Absolute sustainability requirements and how they challenge the food sector

Sustainability assessment of stormwater management systems and the importance of pollutants in runoff

Integrating environmental impacts into cost-benefit analysis- The value of environmental pollutants

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Applying LCA in decision making- the need and the future perspective

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